

# ABSTRACT

The invention concerns a method for regulating the rotation speed, of a motor with which a digital rotation speed controller is associated and which, during operation, furnishes an actual-value signal for the rotation speed in the form of a rotation speed frequency signal, toward a target rotation speed setpoint defined in the form of a setpoint frequency signal, having the following steps: in a first time segment, a first numerical frequency value that characterizes the rotation speed of the motor is ascertained from the rotation speed frequency signal; in a second time segment that is substantially simultaneous with the first time segment, a second numerical frequency value that characterizes the frequency of the setpoint frequency signal is ascertained from the setpoint frequency signal; by means of the first and second numerical frequency values, the rotation speed of the motor is regulated in the digital rotation speed controller to a rotation speed that is associated with the setpoint frequency signal according to a predetermined mathematical relationship.